IIIrd Final

Job No. 14-15-000063.

M. A. R. 57 (Rule 116)

Measurement Book

No. B

612301

Serial No. Providing lighting system to Parvati Neelamaheshwara temple at Basavanahalli inward no-14.

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency Technical manager-2(BBMP) IKP IDL

Date of commencement of work EE/86/D2/WO/20/2016-17. Date-3/3/2017.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1)	Fabricating supplying and erecting of Swaged tubular pole of height 3.5 mtr having three sections and providing two coats of red oxide paint and filled with two coats of Enamelled paint of approved quality and colour and M.S. Base plate of suitable size 200mm x 200mm x 6mm thick welded at the bottom of the pole (USR IS) and 40 mm dia GI/Flexible PVC Pipe of Intr. length fitted to the IS						

MEASUREMENT BOOK

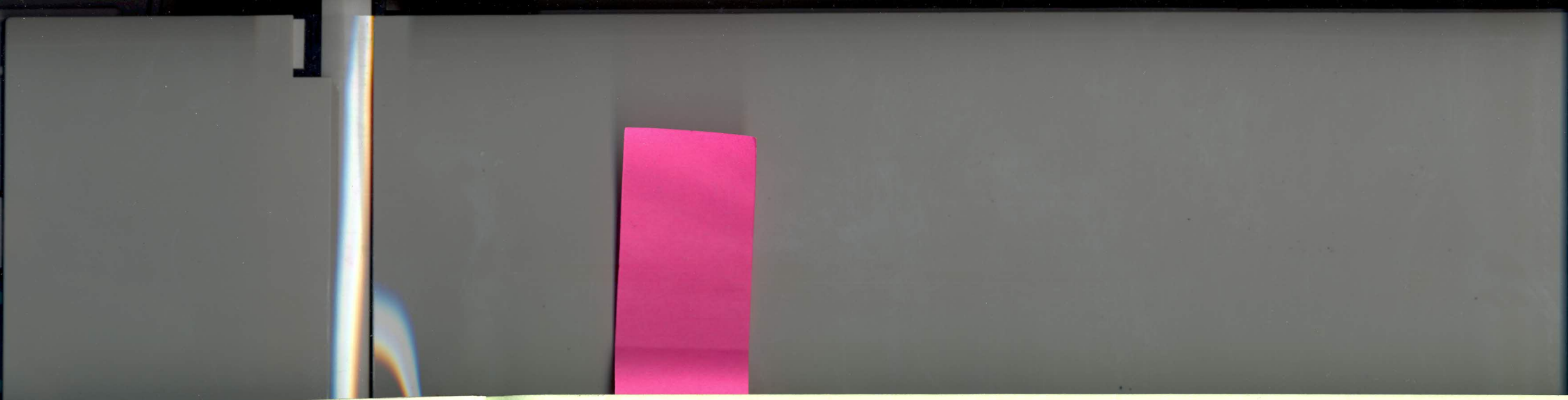
Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	gouge MS control box of size 300 mm x 300 mm x 125 mm arrangement 30A Double Pole Control/DP Switch, 1 No 4 Way Control incl of cable looping. The pole shall be fixed in cement concrete work (1:3:6) including excavation refilling 3.5 mtrs Dole. (Top 0.5 mtr 2" dia bottom 1.5 mtr 3" dia middle 1.5 mtr) Vertical depth 4 mtr conical Erect + alt Dole.	15 Nos	4770/- -E-				8,580/-
	2) supplying 70 W MH integral bott top.						

EE (Ele)
DZ

M. A
Me

Serial No. .....
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	Junction metal cable mounted with fully in shape, appearance, ve acrylic diffuser, corro lab, holdy cel lab, DP S safety fuse 1. the fitting & copper choke with capaci wired to operate on supply with 70 W MH la	



NT BOOK

Dimensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
ge 300 mm x			
30A Panel a			
4 way			
ring. The			
nt Count			
cavation ca			
pority 2'.			
3" dia mode			
t conical			
4770/- -S-			8,5860/-
1 part top.			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

512302

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Transformer metal halide fitting suitable for pole mounted with fully aluminium, anodized with grey shot in shade appearance, UV stabilized clear acrylic diffuser, corrugated horizontal fins, hood cut fin, IP 54 protection, electrical safety class I. The fitting shall have reverse connector choke with capacitor factory wired to operate on 230V 50 Hz AC supply with 70 W MH lamp.						
			1 No		6724/- -S		121032/-

EE (Elec)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
3)	Excavating charges of Pavt Top/Unpavt/Garden & Any on the existing CI/UG or any other pipe duly required for laying UG cable excavation	18	Nil	145/-	-15	2610/-	
4)	supplying 91 kV CTUV cable having all conductor Duly insulated, Extruded Strip Heated, CCD, steel strip (screened 2 CX10 sqmm wire armored) conforming to IS:3975-1990 (Non steel strip insulated sheath) & Extruded PVC outer sheath armored cable with ref IS-1554 Part-1-1988						

M. A
Me

Serial No. .....
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	& conforming to UTP 4 core 16 sqmm.	
	5) 3.5 core 25 sqmm	
5)	Labour charges for la UG cable when supplie Existing trench with/ wall/on pole as reqd duct of 6 to 16 sqmm	

ENT BOOK

...mensions				
	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
...rate (Gardm ... or any ... of section, ... ntg		1451-	-15	2610/-
...be having ... extruded ... (Used ... confirming to ... (rated ...) ... and amend ... 1.1988				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 512303

Serial No. ....

Name of Work .... From.................................. To..

Name of Contractor of nature of Agency ....

Date of commencement of work ....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	8 confirming to UTP 9 grade A 4 core 16 sqmm.		554	mts	140.4	D/L	77781-60.
	5) 3.5 core 25 sqmm		50	mts	165.60	D/L	8280/-
5)	Labour charges for laying of 1.1kv above UG cable item supplied by agency in existing trench with side/ stoneware tiles/ on wall/ on pole as required in existing duct of 6 to 16 sqmm		554	mts	10.80	D/L	5983.2

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
19	LED flood light supplying & LED flood light with ... watts system power consumption pressure die cast all housing with powder coating with IP65 protection 1,200-275V with electronic driver PF 0.9 shouldn't emit 20% ultraviolet test. compliance surge with day 1. system efficiency > 80 lm/W. only load and short cct protection strong reliable operation in input & problem in output body compliance to IS/10322/ IEC 60598, LM 79 & LM 80 adherence						

M. A.
Me

Serial No. .....
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	with surge protection. UL approved flood light with ... & ... & mounted at ... with ... light fixture with ... consumption. LED ... at IWS fixture efficiency nominal CRI 75. Junction should have ... house ... CRI and any	

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
g CED flood				
m Power cable				
t all wiring				
th DB's protection				
: drives DF				
-G Lubrication				
CE cut, clay				
50 Lm/W. only				
rotection Safety				
ute of problem				
nce to fig 10322				
0 reference				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

512303

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	with 90 Ra. UL approved MCB. Top all						
	street light with single row to ensure six						
	g rainterval at 1/4 Right site location						
	with minimum minimal tools. CGL						
	Light fixing with ... W System Power						
	Consumption. LED Efficiency > 130 Lm/W						
	at IWS fixture Efficiency > 90 Lm/W with						
	no minal CRI (75. Luminaire manufacturer						
	should have in house facility accredited						
	Y. Nabl (CRI and any government tested						

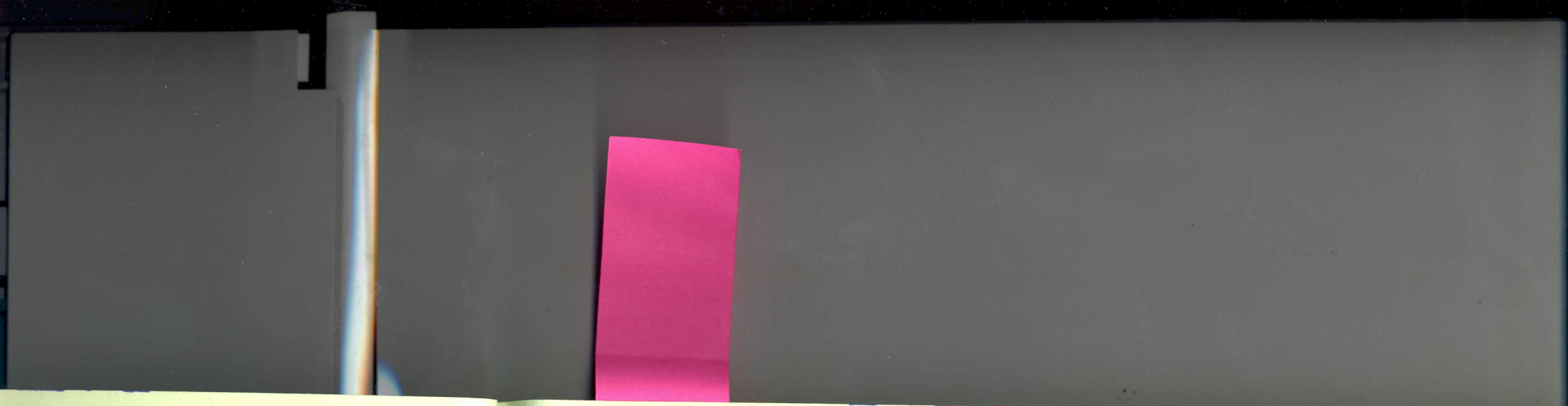
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	agency and design and development facility certified by ISO 9001-2008, having with supplier brand name shall be engraved/ Embossing on the die cast tabs/body part. Warranty 5 yrs against any manufacturing defect and only standard electrical circuitry of mentioned above should be given LED manufacture.	2	Nos	1464/-		2929 2/-	
20)	Supply. Abg rated 3 Phase with neutral live bar ving required capacity Electrolyte all fully covered with heat shrinkable						

M. A.
Me

Serial No. .....
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	coloured pvc plastic me FRP/DMC/ Intwater ph on powdy coated co cover with suitable live bar shall take for termination of in going cable qty 1 & bolt, nuts and washer 100A 4x30x6mm all	1



IENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
clevel thrust 20 good - 2008, d mark/ Name ng on the die rranty 95% ng outdoor area enclosing d be given Nos 1464/- L				29292/-
ver with neutral ty Electrolytic thrushable				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

512310

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Coloured PVC sheets mounted on phenolic/ FRP/ DMC/ thrwater which are mounted on powder coated 1.6x6mm MS flat true cable entry sporting panel board, the bus bar shall have suitable hole for termination of incoming cable as per IS 8130 with necessary bolts, nuts and washers complete 100A 4x30x6mm all	1	Nos	1600/-		L	1600/-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CE/E Accepted ASST. EXECUTIVE ENGINEER (Ele) Bruhath Bangalore Mahanagara Palike Dasarahalli Zone Charge JUNIOR ENGINEER (Ele) Bruhath Bangalore Mahanagara Palike Dasarahalli Zone	1 KM Bay 1 KM Bay			1 Set (Ele) M 4128 Rs 1 Set M		457853-10 41664-83 499517-73
	Audited and admitted for Rs. 499060/- Passed by Cheque for Rs. 438670/- (Four Lakh Thirty Eight Thousand Six Hundred And Seventy Rupees only) by adjustment Rs. 60390/- Accounts Superintendent Exe. Engineer (Ele) B.B.M.P. Dasarahalli Division					IT 9982 2 KSJ 19963 2 LWC 4990 2 CER 499 2 ASD 24956 2 TD 60390 2	499060 2
	ASST. EXECUTIVE ENGINEER (Ele) Bruhath Bangalore Mahanagara Palike						

M. A
Me

Serial No. .....

Name of Work ..... From

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3